

MEMORANDUM FOR: Project Director

SUBJECT : A Light Weight "S" Band Superhetrodyne

1. The RW Band 5 receiver (S Band) using APR-9 microwave components weighs approximately 32 lbs. as is without power supply and without its own programming circuitry. It will weigh 38-40 lbs. if fully equipped to operate outside System IV.

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2. [ ] has essentially completed an "S" Band superhetrodyne for [ ]. It will weigh between 16 and 20 lbs. with power supply and automatic tuning. No lock-on is being provided. [ ] estimates 3½ months to produce this receiver for us. I asked about weight and time involved if lock-on was added. [ ] wanted more time to answer this since they had no experience in miniaturizing lock-ons. Off-handedly they thought the weight would not change materially but that development time might be significantly longer. A better answer will be supplied later on this lock-on point.

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3. As I understand the purpose of the receiver, lock-on would not be required, in fact probably not desired.

4. The basic question seems to me to be, will we want to use such a receiver in a place where IV cannot be carried? This is hard for me to answer in the affirmative.

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5. If however, the answer to paragraph 4/ above is yes, it is recommended that [ ] build us a 16-20 lb. no lock-on "S" Band superhetrodyne. Details have not been worked out with [ ] and should a receiver be produced, conferences between the [ ] on these details is recommended.

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Acting RLINT Staff Officer

Distribution:

Orig & 1 - fwd

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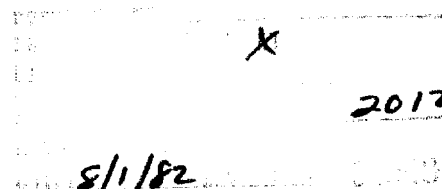
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*No action reqd at this time DWK 3/7/58*